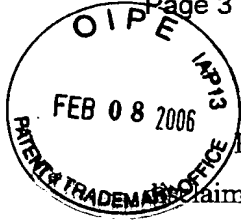


APPLICANT(S): RISKIN, Yefim
SERIAL NO.: 10/510,099
FILED: October 5, 2004

Page 3



AMENDMENTS TO THE CLAIMS

Please add or amend the claims to read as follows, and cancel without prejudice or disclaimer to resubmission in a divisional or continuation application claims indicated as cancelled:

1-14. (Cancelled)

15. (New) A method of generating positive and negative ions comprising:

generating AC high voltage;

providing different polarity of the high-voltage to at least one pair of ionizing electrodes mounted in separate conducting cages located adjacent to each other, each of the cages provided with an opening opposite the electrode;

balancing ion currents emitted by each of the electrodes by providing a balancing unit, output from the AC high voltage being via the balancing unit to the electrodes, each electrode provided with different polarity; and

generating an external electric field by providing electrical potential difference between the cages,

whereby some of the ions generated from the electrodes escape outside the cages due to the presence of external electric field.

16. (New) The method of claim 15, wherein the electrical potential difference between the cages, with reference to the ground is provided using the ion current from each electrode across to the cage in which the electrode is mounted, passing through an element for producing a voltage drop.

17. (New) The method of claim 15, wherein ion currents from both electrodes are passed through capacitive network common for these currents.

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APPLICANT(S): RISKIN, Yefim
SERIAL NO.: 10/510,099
FILED: October 5, 2004
Page 4

18. (New) The method of claim 15, wherein at least one of the ion currents emitted through the cage is used for providing a feedback signal for comparing the feedback signal with a reference signal to control the AC high-voltage generator, for stabilizing ion emission.

19. (New) The method of claim 18, wherein the minimal value of the feedback signal, below which a predetermined ion emission level is not supported, is used to indicate the need for cleaning or replacing of the electrodes.

20. (New) The method of claim 15, wherein at least one of the ion currents emitted through an electrode is used for providing a feedback signal for comparing the feedback signal with a reference signal to control the AC high-voltage generator, for stabilizing ion emission.

21. (New) The method of claim 20, wherein the minimal value of the feedback signal, below which a predetermined ion emission level is not supported, is used to indicate the need for cleaning or replacing of the electrodes.

22. (New) A generator for generating positive and negative ions comprising:

AC high voltage generator;

at least one pair of ionizing electrodes provided with different polarity from the AC high-voltage generator, mounted in separate conducting cages located adjacent to each other, each of the cages provided with an opening opposite the electrode;

a balancing unit for balancing ion currents emitted by each of the electrodes, output from the AC high voltage being via the balancing unit to the electrodes, each electrode provided with different polarity; and

an element for producing an electric potential difference between the cages, connected to each of the cages for generating an external electric field by using the ion current from each electrode across to the cage in which the electrode is mounted, passing through the element for producing a voltage drop,

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APPLICANT(S): RISKIN, Yefim
SERIAL NO.: 10/510,099
FILED: October 5, 2004
Page 5

whereby some of the ions generated from the electrodes escape outside the cages due to the presence of external electric field.

23. (New) The generator of claim 22, wherein the ionizing electrodes are connected to different polarity of the AC high-voltage generator is carried out by two inversely-connected rectifying diodes.

24. (New) The generator of claim 23, wherein the element for producing a voltage drop is a Zener diode with a condenser.

25. (New) The generator according to claim 22, further provided with a comparator for comparing a feedback signal corresponding to the ion current emitted through at least one cage with a reference signal to control the AC high-voltage generator, for stabilizing ion emission.

26. (New) The generator according to claim 22, further provided with a comparator for comparing a feedback signal corresponding to the ion current emitted through at least one electrode with a reference signal to control the AC high-voltage generator, for stabilizing ion emission.

27. (New) The generator according to claim 22, further provided with an indicator for indicating the need for cleaning the electrodes from dust or repair.